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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/221,931	12/28/1998	TAKASHI TSURUO	WAKAB37.001A 3902	
20995	7590 05/19/2003			
KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR			EXAMINER	
			BORIN, MICHAEL L	
IRVINE, CA	92614		ART UNIT	PAPER NUMBER
	•		1631	

DATE MAILED: 05/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.

09/221,931

Applicant(s)

Examiner

Art Unit

Tsuruo et al.

Office Action Summary

<u>r</u>)

,	Michael Borin	1631				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM						
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply with the period for reply is specified above, the maximum statutory period will a Failure to reply within the set or extended period for reply will, by statute, or any reply received by the Office later than three months after the mailing departed patent term adjustment. See 37 CFR 1.704(b).	thin the statutory minimum of thirty (30) days wipply and will expire SIX (6) MONTHS from the use the application to become ABANDONED (3	vill be considered time mailing date of this co 5 U.S.C. § 133).	ly.			
Status	•					
1) \square Responsive to communication(s) filed on $3/18/03$	}		·			
2a) ☐ This action is FINAL . 2b) ☑ This a	ction is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
Disposition of Claims						
4) 💢 Claim(s) <u>26-34</u>	is	are pending in	the application.			
4a) Of the above, claim(s)	is	/are withdrawn	from consideratio			
5) Claim(s)		is/are allow	ed.			
6) 🔀 Claim(s) <u>26-34</u>		is/are reject	ed.			
7) Claim(s)		is/are objec	ted to.			
8) Claims	are subject to res	striction and/or e	election requirement			
Application Papers						
9) \square The specification is objected to by the Examiner.						
10) The drawing(s) filed on is,	are a \square accepted or b \square objec	ted to by the Ex	aminer.			
Applicant may not request that any objection to the	•					
11) The proposed drawing correction filed on is: a approved b disapproved by the Examine						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some* c) None of:						
 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. 						
3. Copies of the certified copies of the priority documents have been received in Application No.						
application from the International Bu *See the attached detailed Office action for a list of	reau (PCT Rule 17.2(a)).					
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
a) \square The translation of the foreign language provisional application has been received.						
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Pape					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s).	Notice of Informal Patent Application Other:	n (PTO-152)				
C, morniation Disclosure Statement(s) (F10-1443) Paper No(5).	o, Coulor.					

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DETAILED ACTION

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Continued Prosecution Application

1. The request filed on 03/18/2003 for a Continued Prosecution Application (CPA)

under 37 CFR 1.53(d) based on parent Application No, 09/221931 is acceptable and

a CPA has been established. An action on the CPA follows.

Status of Claims

2. Claims 11, 17-25 are canceled. Claims 26-34 are added. Claims 26-34 are

pending.

3. On the onset, it should be noted that the new set of claims is strictly limited

to catechin concentration of 15 μ M, which is an *in vitro* concentration. Since it does

not seem to be possible to determine administration of which dosage yields this same

concentration in vivo, it is not possible to compare the invention as claimed with the

prior art. Consequently, the art rejections are not applied at this point, pending

resolution of issues discussed below in the rejections under 35 U.S.C. 112, first and

second paragraphs.

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Claim Rejections - 35 USC § 112, second paragraph.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his

invention.

4. Claims 26-31 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter

which applicant regards as the invention: It is not clear whether contacting cells with

a solution of telomerase inhibitor is meant to be under in vitro or in vivo conditions.

5. Claims 30,31 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter

which applicant regards as the invention: It is not clear how varying concentration of

catechins in the extract(31) or in telomerase inhibitor (claim 30) yields one single final

concentration: the claims recite range of concentrations for catechins; however the

base claim 26 is limited to a set concentration of $15\mu M$.

6. Claims 32-34 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter

which applicant regards as the invention. The claims are drawn to administering

"effective amount" of telomerase inhibitor. However, while specification teaches a

broad range of concentrations (500-2000mg/day), it is not clear which dosage is an

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"effective amount" to result in precise concentration of $15\mu M$ in the vicinity of

targeted cells, which is the limitation of the base claim 26.

Claim Rejections - 35 USC § 112, first paragraph.

7. Claim 28 are rejected under 35 U.S.C. 112, first paragraph, as containing

subject matter which was not described in the specification in such a way as to

reasonably convey to one skilled in the relevant art that the inventors, at the time the

application was filed, had possession of the claimed invention. The claim recites

several catechins other than epigallocatechin gallate. The only example in the

specification demonstrating effect of the concentration of $15\mu M$ (which is now

limitation of the base claim 26) describes epigallocatechin gallate, EGCG. There is no

disclosure in the specification of effect of other catechins in said concentration.

8. Claims 26-30 are rejected under 35 U.S.C. 112, first paragraph, because the

specification, while being enabling for the use of epigallocatechin gallate, EGCG, in

concentration of $15\mu M$, does not reasonably provide enablement for use of other

catechins, or use of crude green tea extract. The only example in the specification

demonstrating effect of the concentration of $15\mu M$ (which is now limitation of the

base claim 26) describes epigallocatechin gallate, EGCG. There is no examples of the

effect of other catechins, nor there is guidance that other catechins should be used

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9.

in the same concentrations to inhibit telomerase. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly

connected, to use the invention commensurate in scope with these claims.

based on a disclosure which is not enabling. The claims are drawn to use of green tea extract; however, as applicant acknowledges, "although the catechin content of green tea extract is 93%, it is difficult to estimate the concentration of the resultant catechin solution to be contacted with the cells" (see response filed 03/18/2003,

page 5, first paragraph). The specification does not provide guidance or working

examples on how to achieve the precise concentration of 15μ M, required by the base

Further, claims 27, 31 are rejected under 35 U.S.C. 112, first paragraph, as

10. Claim 32-34 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. There is no disclosure

that epigallocatechin gallate, or any other catechin, inhibits telomerase in vivo in

concentration of $15\mu M$.

claim 26, using green tea concentrate.

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11. Claim 32-34 are rejected under 35 U.S.C. 112, first paragraph, as based on a

disclosure which is not enabling. The claims are drawn to administering "effective

amount" of telomerase inhibitor, which, according to the base claim 26, should yield

concentration of $15\mu M$ in the vicinity of targeted cells. However, while specification

teaches a broad range of concentrations (500-2000mg/day), it does not provide

guidance on how to achieve, in vivo, the precise concentration of $15\mu M$, which is the

limitation of the base claim 26.

Conclusion.

8. No claims are allowed

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael Borin whose telephone number is (703)

305-4506. Dr. Borin can normally be reached between the hours of 8:30 A.M. to

5:00 P.M. EST Monday to Friday. If attempts to reach the examiner by telephone are

unsuccessful, the examiner's supervisor, Mr. Michael Woodward, can be reached on

(703) 308-4028. The fax telephone number for this group is (703) 305-3014.

Any inquiry of a general nature or relating the status of this application should

be directed to the Group receptionist whose telephone number is (703) 308-0196.

MICHAEL BORIN, PH.D PRIMARY EXAMINER

05/15/03

RIMARY EXAMINER